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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,790	07/28/2006	Paul Bamborough	PB60706	2091
	EXAMINER			
· · · · · · · · · · · · · · · · · · ·			PAGONAKIS, ANNA	
			ART UNIT	PAPER NUMBER
			1628	
			NOTIFICATION DATE	DELIVERY MODE
			09/01/2010	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

US\_cipkop@gsk.com

	Application No.	Applicant(s)				
	10/587,790	BAMBOROUGH ET AL.				
Office Action Summary	Examiner	Art Unit				
	ANNA PAGONAKIS	1628				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>01 Ju</u>	ılv 2010.					
,	action is non-final.					
<del>/_</del>	<del>-</del>					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-13 and 15-51</u> is/are pending in the application.						
4a) Of the above claim(s) <u>4-6,8,9 and 20-51</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3, 7, 10-13 and 15-19</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list	or the certified copies flot receive	u.				
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)						
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application  Other:						

The action mailed on July 15, 2009 is hereby vacated and replaced with the current action.

In view of the Appeal Brief filed on July 1, 2010, **PROSECUTION IS HEREBY REOPENED**.

New grounds of rejection are set forth below.

To avoid abandonment of the application, Appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then Appellant must pay the difference between the increased fees and the amount previously paid.

Rejections not reiterated from the final Office Action are hereby withdrawn. The following rejections are either reiterated or newly applied. They constitute the complete set of rejections presently being applied to the instant application.

Claims 1-13 and 18-23 are pending. Claims 18 and 23 remain withdrawn for being drawn to non-elected subject matter.

A reasonable and comprehensive search conducted by the Examiner determined the prior art at the time of the present invention was such that it did not anticipate or render obvious the elected species.

A search, however, did discover prior art that rendered the claimed genus obvious. Specifically, the specie election is being expanded to the following two compounds:

Application/Control Number: 10/587,790 Page 3

Art Unit: 1628

Example 111 Example 138

wherein the substituent on the indazole ring of instantly claimed species is a tetrahydro-2*H*-pyran ring with an intervening methylene group.

Claims 1-13 and 19-22 are currently under examination and the subject matter of the current Office Action.

# Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 11 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 11 is rejected because it refers to Examples 1 to 9 of the instant specification. A claim should particularly point out and distinctly claim the subject matter which the applicant regards as his invention, and should stand alone to define the invention. Incorporation into claims by express reference to specification in this situation is not permitted, because one must refer back to the specification to

Art Unit: 1628

determine what applicant is claiming by referring to the examples. It is suggested that applicant insert chemical names or chemical structures into the claim.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-13 and 19-22 are rejected under 35 U.S.C. 103(a) as being obvious over Angell et al. (U.S. 2006/0122221; of record) in view of Brill et al. (WO 03/097610).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an

Art Unit: 1628

oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(1)(1) and § 706.02(1)(2).

Page 5

Angell et al. (see entire document; particularly pages 48-69) teach biaryl indazole compounds that are structurally similar to the instant claimed compounds. Specifically, Angell et al. disclose the following compounds:

Example 111 Example 138

The difference between the compounds of the prior art and the species instantly claimed is that the substituent on the indazole ring of instantly claimed species is a tetrahydro-2*H*-pyran ring with an intervening methylene group. Furthermore, Angell et al. suggest that the heterocycle off the indazole ring should only be a heterocycle containing nitrogen (page 71, lines 10-11).

Brill et al. disclose indazole compounds that also show activity as kinase inhibitors. Further, Brill et al. demonstrate that the 3-position of the indazole ring may be substituted by a tetrahydrofuran ring containing moiety. (Page 47, Code C8).

Art Unit: 1628

Therefore, a person having ordinary skill in the art at the time the invention was made would have recognized the potential use of oxygen-containing heterocycles on the same indazole core as disclosed by Angell et al. Furthermore, the same person having ordinary skill in the art at the time the invention was made would have been motivated to synthesize compounds based on the core structure of Angell et al. whereby the 1-position is substituted by an oxygen-containing heterocycle such as tetrahydro-2H-pyran or tetrahydrofuran with the hope of developing more compounds that demonstrate kinase inhibitory activity.

While the compounds reported by Brill et al. are position isomers of the compounds reported by Angell et al., the MPEP (2144.09) states "Compounds which are position isomers (compounds having the same radicals in physically different positions on the same nucleus) or homologs (compounds differing regularly by the successive addition of the same chemical group, e.g., by -CH<sub>2</sub>- groups) are generally of sufficiently close structural similarity that there is a presumed expectation that such compounds possess similar properties. *In re Wilder*, 563 F.2d 457, 195 USPQ 426 (CCPA 1977).

## **Double Patenting**

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-13 and 19-22 are rejected on the ground of nonstatutory double patenting over claims 1-6 and 9-14 of U.S. Patent 7,687,532.

Application/Control Number: 10/587,790 Page 7

Art Unit: 1628

Although the claims are not identical, they are not patentably distinct from each other because U.S. Patent 7,687,532 claims the same genus as that of instant claim 1:

where A is a fused 5-membered heteroaryl substituted by  $-(CH_2)_m$ heterocyclyl,  $R^1$  is selected from methyl and chloro,  $R^2$  is selected from -NH-CO- $R^5$  and -CO-NH- $(CH_2)_q$ - $R^6$ , X and Y are each independently selected from hydrogen, methyl and halogen.

## Conclusion

No claim is found to be allowable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANNA PAGONAKIS whose telephone number is (571)270-3505. The examiner can normally be reached on Monday thru Thursday, 7am to 5pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brandon Fetterolf can be reached on 571-272-2919. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/587,790 Page 8

Art Unit: 1628

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished applications is available

through Private PAIR only. For more information about the PAIR system, see http://pair-

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Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer

Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR

CANADA) or 571-272-1000.

AP

/Brandon J Fetterolf/

Supervisory Patent Examiner, Art Unit 1628